

IN THE CLAIMS

For the convenience of the Examiner, all pending claims of the Application are reproduced below regardless of whether or not an amendment has been made.

1. (Currently Amended) A method for routing an externally generated message in a network, comprising:

receiving at an ingress port of ~~a network~~ **an internal network** a message from an external network, the message comprising internet protocol (IP) source and destination addresses and message data;

translating the IP source and destination addresses to internal addresses that are non-forwardable in the external network, **the IP source address translated into an internal loop back address reserved for the ingress port, the destination address translated into an internal loop back address reserved for a node within an internal network**; and

routing the message data in the **internal** network based on the internal **loop back** addresses.

2. (Canceled)

3. (Original) The method of Claim 1, further comprising:
receiving at an egress port of the network a response to the message, the response comprising internal source and destination addresses and response data;

translating the internal source and destination addresses to external IP addresses; and
transmitting the response data for routing in the external network based on the source and destination IP addresses.

4. (Original) The method of Claim 3, further comprising:
storing an IP source address of the message; and
using the IP source address in translating an internal address of the response for routing in the external network.

5. (Original) The method of Claim 1, wherein the message comprises a control message generated by a management station.

6. (Currently Amended) The method of Claim 1, wherein the internal addresses comprise a loop back indicator, ~~a identifier~~ an identifier of a node in the network and an identifier of an element in the node.

7. (Currently Amended) A system for routing an externally generated message in a network, comprising:

means for receiving at an ingress port of ~~a network~~ an internal network a message from an external network, the message comprising internet protocol (IP) source and destination addresses and message data;

means for translating the IP source and destination addresses to internal addresses that are non-forwardable in the external network, the IP source address translated into an internal loop back address reserved for the ingress port, the destination address translated into an internal loop back address reserved for a node within an internal network; and

means for routing the message data in the internal network based on the internal loop back addresses.

8. (Canceled)

9. (Original) The system of Claim 7, further comprising:

means for receiving at an egress port of the network a response to the message, the response comprising internal source and destination addresses and response data;

means for translating the internal source and destination addresses to external IP addresses; and

means for transmitting the response data for routing in the external network based on the source and destination IP addresses.

10. (Original) The system of Claim 9, further comprising:

means for storing an IP source address of the message; and

means for using the IP source address in translating an internal address of the response for routing in the external network.

11. (Original) The system of Claim 7, wherein the message comprises a control message generated by a management station.

12. (Currently Amended) The system of Claim 7, wherein the internal addresses comprise a loop back indicator, ~~a-identifier~~ an identifier of a node in the network and an identifier of an element in the node.

13. (Currently Amended) A system for routing an externally generated message in a network, comprising:

logic encoded in media; and

the logic operable to:

receive at an ingress port of ~~a-network~~ an internal network a message from an external network, the message comprising internet protocol (IP) source and destination addresses and message data, ~~to;~~

translate the IP source and destination addresses to internal addresses that are non-forwardable in the external network, the IP source address translated into an internal loop back address reserved for the ingress port, the destination address translated into an internal loop back address reserved for a node within an internal network; and

~~to~~ route the message data in the internal network based on the internal loop back addresses.

14. (Canceled)

15. (Original) The system of Claim 13, the logic further operable to receive at an egress port of the network a response to the message, the response comprising internal source and destination addresses and response data, to translate the internal source and destination addresses to external IP addresses and to transmit the response data for routing in the external network based on the source and destination IP addresses.

16. (Original) The system of Claim 15, to logic further operable to store an IP source address of the message and use the IP source address in translating an internal address of the response for routing in the external network.

17. (Original) The system of Claim 13, wherein the message comprises a control message generated by a management station.

18. (Currently Amended) The system of Claim 13, wherein the internal addresses comprise a loop back indicator, ~~a-identifier~~ an identifier of a node in the network and an identifier of an element in the node.